



Press Release

April 8, 2024

Low-pressure, thin bond line phase change thermal interface material and UL safety agency-rated conformal coating earn top spots in Circuits Assembly NPI Award program

Henkel innovation strength rewarded – two leading-edge products land high honors

Irvine, CA – Henkel today announced that two of its latest electronic material innovations were named best-in-class in Circuits Assembly magazine’s NPI Award program, which recognizes leading new products launched in the last year. Henkel’s Bergquist Hi Flow THF 5000UT phase change formulation won in the Thermal Interface Materials (TIMs) category, and its Loctite Stycast CC 8555 conformal coating came in first among Coatings/Encapsulants entrants.

Bergquist Hi Flow THF 5000UT is a thin bond line phase change TIM film that delivers low thermal impedance at market-leading low pressure, effectively balancing the device requirements for excellent thermal control and low stress in high-end electronics applications. The formulation ensures thorough wet-out for efficient heat dissipation while limiting mechanical pressure on large, multi-chip packages like those used for AI, high-performance computing, and industrial applications. Today’s most powerful AI and HPC processors integrate sizeable, thin, delicate die. Space is limited, power density is high, and controlling heat without damaging the device is a necessity. Bergquist Hi Flow THF 5000UT addresses all these demanding conditions, helping to boost operational performance.

Joining the company’s TIM in the winner’s circle, Henkel’s Loctite Stycast CC 8555 conformal coating also earned an NPI Award based on its proven ability to protect high-power electronics in extreme environments, confirmed by its UL temperature and flammability certification credentials. With a relative temperature index (RTI) rating of 130° C per the UL 746-E standard and a UL 94 V0 flammability rating, Loctite Stycast CC 8555 protects printed circuit boards (PCBs) and sensitive components against moisture, mixed gases, and chemicals that can cause corrosion and damage. These attributes help secure long-term reliability in demanding

industrial and outdoor environments, while the material's VOC-free, solvent-free formulation provides health, safety, and cost-of-ownership benefits.

"Winning two NPI Awards in such diverse categories underscores Henkel's innovation breadth," says George Thomas, Americas Senior Vice President for Industrials in Henkel's Adhesive Technologies business unit. "Both materials address electronic reliability requirements for some of the toughest applications in the most extreme environments. We are grateful that the NPI Award judges recognized the impact these products will have in enabling new technology development."

Circuits Assembly Publisher Mike Buetow notes Henkel's impressive NPI Award history, saying, "Over the past decade, Henkel products entered in the NPI Award contest have consistently won in their respective categories, underscoring the judges' recognition of the company's alignment with current and future market needs. Congratulations on these latest wins!"

Commercialized in early 2024, this is Loctite Stycast CC 8555's first industry award. Bergquist Hi Flow THF 5000UT made its market debut in mid-2023 and has since earned three notable distinctions. The material won a Global Technology Award, was named a Lightwave Innovation Review honoree, and has now secured an NPI Award.

Learn more about Henkel's thermal interface and protection materials portfolios by visiting www.henkel-adhesives.com.

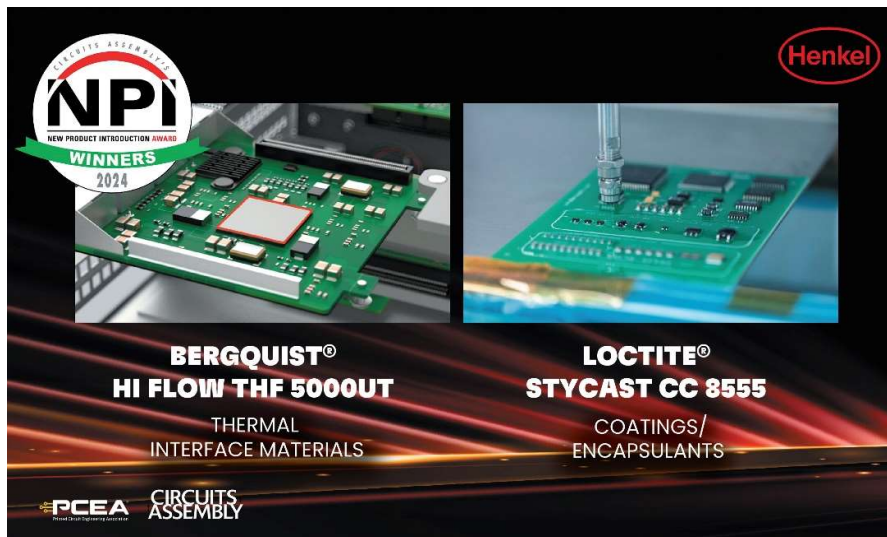
About Henkel

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and functional coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2023, Henkel reported sales of more than 21.5 billion euros and adjusted operating profit of around 2.6 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 48,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at www.henkel.com

Photo material is available at www.henkel.com/press

Contact Sebastian Hinz
Phone +49 211 797-85 94
Email sebastian.hinz@henkel.com

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